

USE OF LAND-BASED UNIT TO PROVIDE
DELIVERY PATH OPTIMIZATION TO WIRELESS MOBILE UNIT

ABSTRACT OF THE DISCLOSURE

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A system for optimizing the routing of a call originated from a land-based terminal (43) to a wireless mobile terminal (47) utilizing the interaction between a server controlled Internet protocol network (45) and the home location register (53) for the number assigned to the mobile terminal. In response to a call request by the server, the home location register identifies the visited location register (57) in contact with the mobile terminal and obtains a temporary local directory number of the local serving switch (63) in contact with a mobile data unit (51) connected to the mobile terminal. The server then uses the temporary local directory number to reach a data unit (70) on the network, which is used to place a local call over the public switched telephone network (72) to the serving switch. The serving switch, using the number assigned by the visited location register, obtains the correct cell site (87) and modem identification number that the server controlled IP-network needs to complete the call to the mobile terminal. The public switched telephone network is only used once to make a local call to the visited switch, minimizing the fee for use of the public switched telephone network.

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